FEEDING BUCKETS

BD 1202
BD 1402
BD 2002
BD 2402
BD 3102

User Manual

Read carefully before operating the feeding bucket

UK 363992 AB - 1209

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1. INSTRUCTIONS FOR THE OPERATOR

GENERAL

This user and maintenance manual is the user guide for handling, use and maintenance of your machine.

Read this manual carefully and keep it in a suitable place in order to be able to refer to it if so required. Pass it on to any other user, this also includes instances where your machine is sold on or loaned.

The feeding bucket is intended solely for distributing animal feed.

Carry out specified maintenance in order to keep the machine in perfect working order and to ensure sustained reliability. Lubricate it with grease once a week for daily use.

Check fasteners for tightness after 10 and 50 hours and every 100 hours thereafter.

IMPORTANT:
Any fasteners/screws needing to be retightened must be inspected, replaced if necessary, cleaned and reassembled using thread locking compound.
Tighten fasteners/screws in accordance with the tightening torque recommended in the table below.
(fasteners/screws attaching to the tractor must not be tightened using an air gun).

Tightening torque (Nm)

Thread	Fastener class		
	8.8	**10.9**	**12.9**
M 8	21	29	35
M 10	42	58	70
M 12	72	101	121
M 14	114	160	193
M 16	174	245	295
M 18	240	340	405
M 20	340	475	570
M 22	455	640	765
M 30 x 150	500		
M 40 x 150	500		

CLEANING THE MACHINE

When using a pressure washer, do not stand too close to the machine, do not spray directly onto electrical components, linings, filler apertures, etc.

SAFETY

Pages 3 to 4 list and describe the precautions to be adopted for the safety of the operator and others. Before using the machine, read the safety rules and adhere to the appropriate recommendations and suggestions.

Safety conditions will only be assured if the machine supplied matches the type of machine recommended in the current MX price list.

SPARE PARTS

Use only spare parts and accessories that comply with the manufacturer's recommendations.
Do not carry out any modifications yourself or have anyone else do so on your machine and its attachments *(mechanical, electrical, hydraulic or pneumatic specifications)* without prior approval in writing from your manufacturer.

Failure to comply with these rules may render your machine hazardous. The manufacturer cannot be held liable in any way in the event of damage or injury.

WARRANTY

Warranty cover will cease immediately in the event of failure to observe the standards and instructions for use and maintenance of the machine as stipulated in this manual.

2. SAFETY RULES

— The operator must ensure before any use that there is no-one in the area in which the feeding bucket will be moving.

— Take extra care when anyone passes close to protruding components.

— Any work on the feeding bucket must be carried out by the operator, who is to leave his seat and lock out all controls while doing so.

1. No work while the auger is rotating.
2. Only one operator.
3. The tractor engine must be shut down for any work on the bucket. All loader and bucket controls are to be in neutral.

— The feeding bucket must not be used to carry or lift personnel or livestock.

— The feeding bucket has been designed for a maximum operating pressure of 200 bar.

— The hydraulic source must be capable of delivering 180 bar pressure.

— Breaking lead seals will void any liability on the part of MX for all its equipment.

— Never make any changes to the hose connections.

Using the silage pickup rotor:

— Note: for safety reasons, the rotor should only be capable of being operated by sustained pressure on 2 separate controls (e.g.: pressing solenoid valve control button + operating hydraulic control valve lever).

Use on self-propelled loaders:

— MX implements are designed to offer the operator of the prime mover to which they are fitted optimum angles for crowding at ground level and dumping.

— Before handing over to the operator, the installer must check that there is no possibility of interference occurring between the implement which has been fitted and other components of the machine (*tyres, mudguards, etc.*), as a result of the maximum travel of the implement installed, when the boom of the machine positions the implement closest in to the prime mover.

— In the event of the aggregation of positional conditions of the implement and the arms leading to interference, the installer is to notify the operator and provide him with instructions on how to prevent such interference.

— **In general it is sufficient to operate with the boom extended by at least 0.5 m.**

MX CANNOT BE HELD LIABLE FOR ANY DAMAGE OR ACCIDENTS WHICH MIGHT RESULT FROM IMPACTS CAUSED BY THIS.

3. SAFETY STICKERS

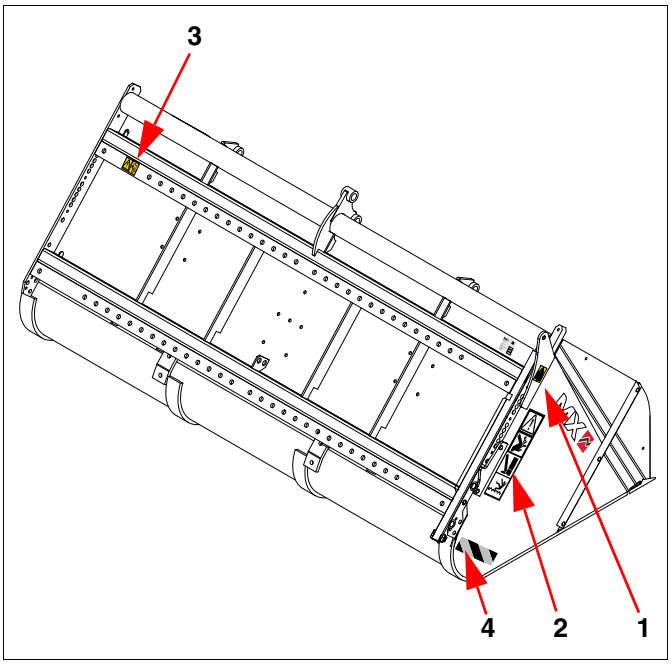
The labels illustrated below have been affixed to the feeding bucket at the locations shown on the general arrangement.

These labels are a major contribution to the safety of the operator and of personnel working with him.

We recommend that you read these pages carefully and that you identify the labels on the machine, familiarising yourself with their meaning.

Go through the detailed instructions below with anyone working with the machine.

Ensure the labels are clean and legible; replace them if damaged.



1. Location: Door ram pin lug.

— Familiarise yourself with the safety rules in the user manual before using or working on the loader.

1. Part No. 320005

2. Location: on the door.

— Keep hands and feet away from the door and the rotor in order to prevent serious injury.

2. Part No. 301342

3. Location: On the top cross-bar, left-hand side.

— Puncture risk: Do not dump the implement to its fullest extent while lowering the telescopic arm.

3. Part No. 301414

4. Location: on the door.

— Identifying a moving part which could cause serious injury.

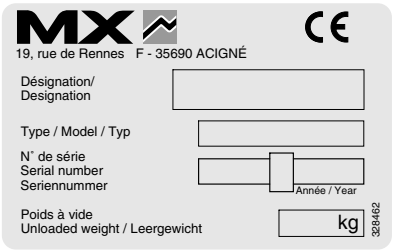
4. Part No. 509632

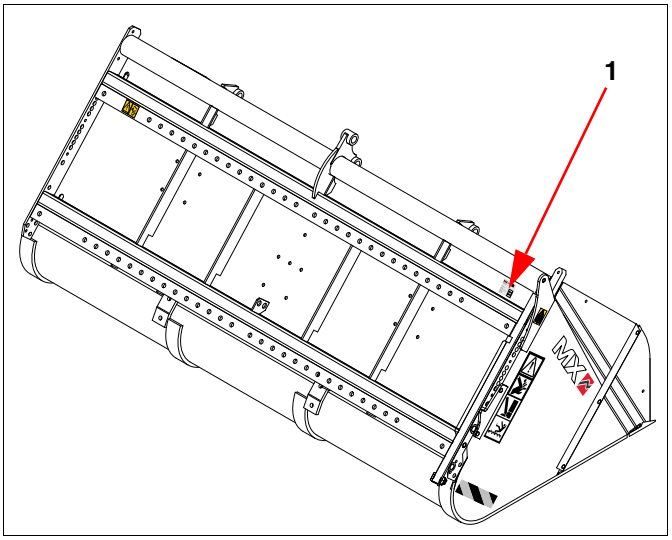
4. NAMEPLATE

Identification details are to be passed on to your dealer with any request for spare parts or service work. Their location is illustrated below.

Right-hand side of bucket

1. Bucket nameplate showing identification details.
   Part no. 328462





5. HITCHING

— The feeding bucket is used positioned either centrally or offset to the right or to the left in order to discharge directly above the trough.
This setting is achieved by shifting the hitching frame on the bucket.

— At least one double-acting hydraulic line is needed in order to fit the feeding bucket to the front of the loader or to a telehandler.

— At least one single-acting and one double-acting control valve is needed in order to fit the feeding bucket on the rear 3-point linkage.

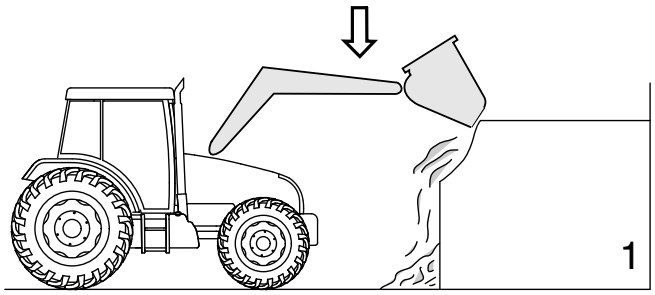
Balance the prime mover / attachment combination with a front or rear counterweight depending on the weight and position of the feeding bucket.

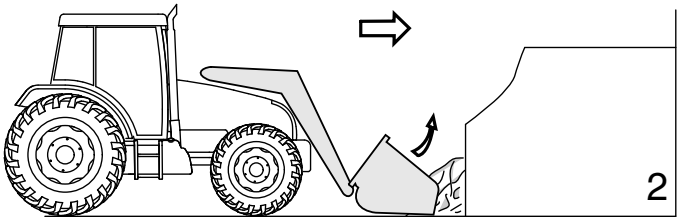
6. OPERATING PRINCIPLE

— These buckets are used to distribute feed for livestock *(maize, beet, etc.).*

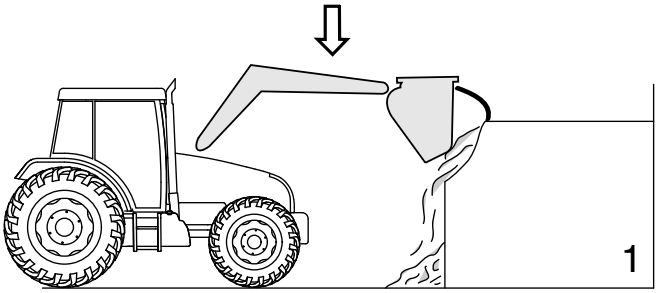
6.1 Filling the bucket

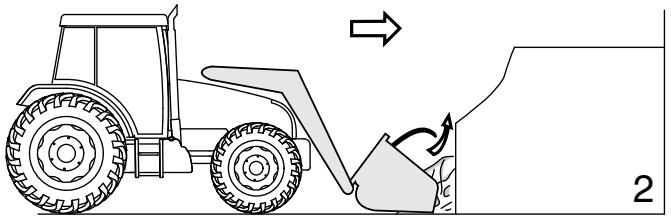
With a basic feeding bucket



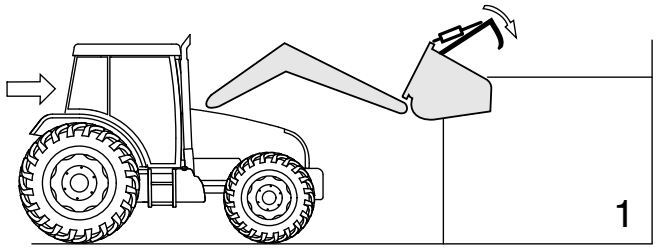


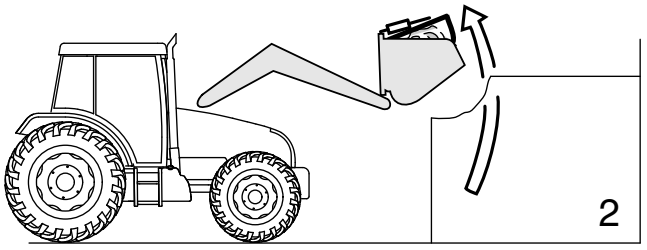
With fixed silage pickup tines (optional)

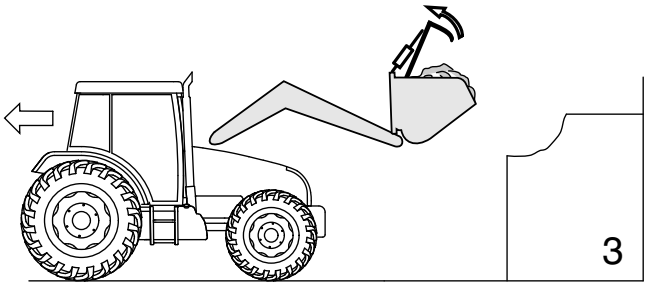




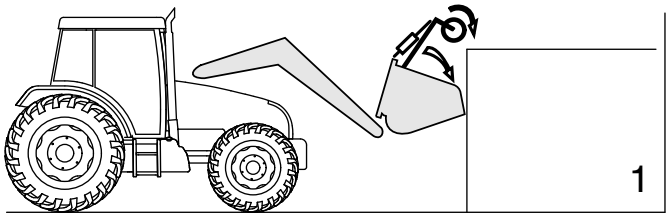
With hydraulic silage pickup grab (optional)

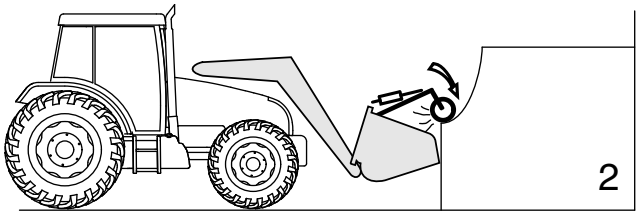


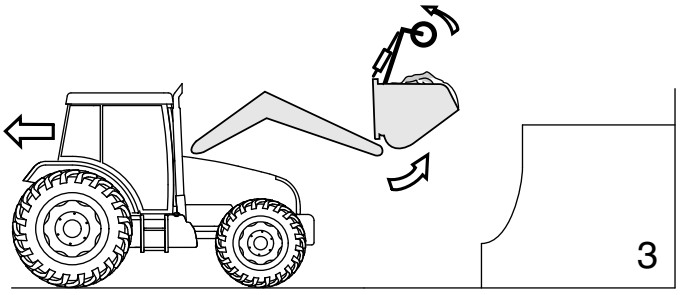




With hydraulic silage pickup rotor (optional)





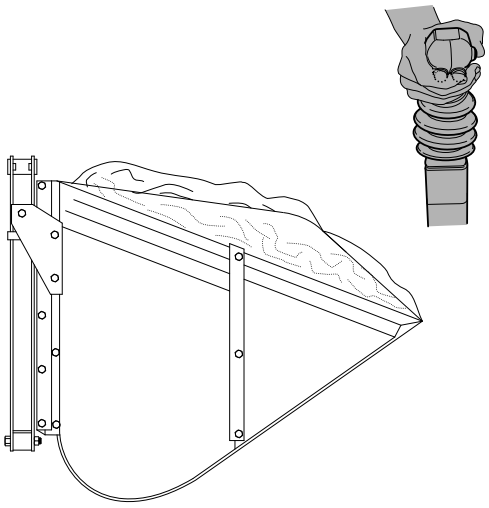


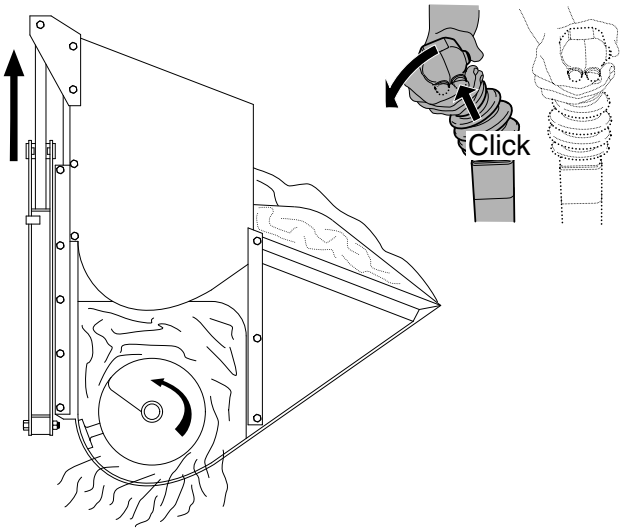
6.2 Discharging the material

Caution

In order to ensure safe conditions when discharging, the control valve lever must be held by hand and never locked.
All movement will stop as soon as the lever is released by the operator.

6.2.1 Opening the discharge door:

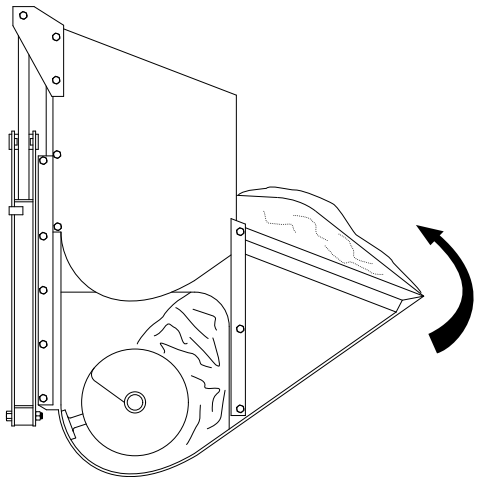


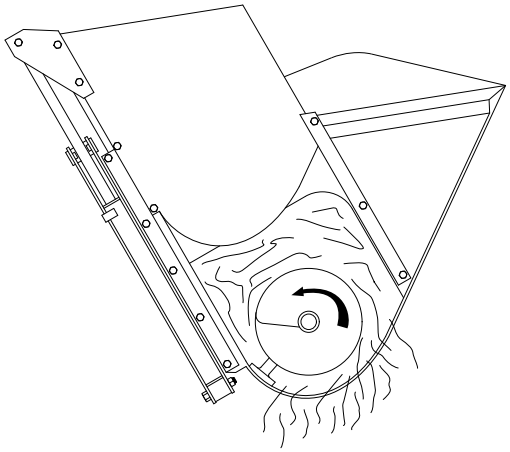


In order to achieve as uniform a discharge as possible, it is advisable to start the discharge with the "door opening ram vertical" (See below).

Once 30 to 50% of the forage has been discharged, crowd the bucket to feed the auger with the forage left in the front section of the bucket (See below).

The method is desirable especially for feeding buckets not fitted with agitators.

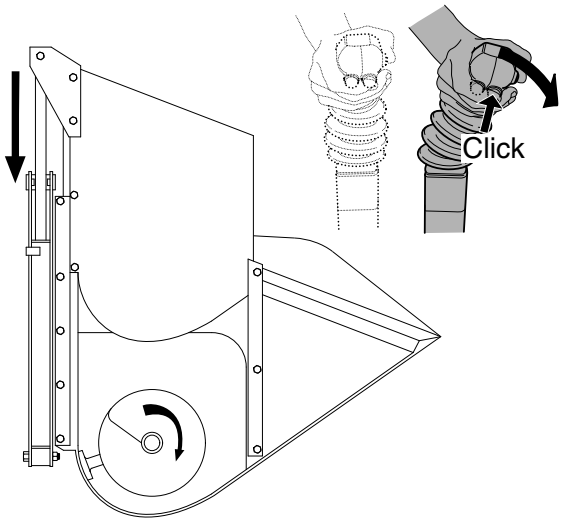


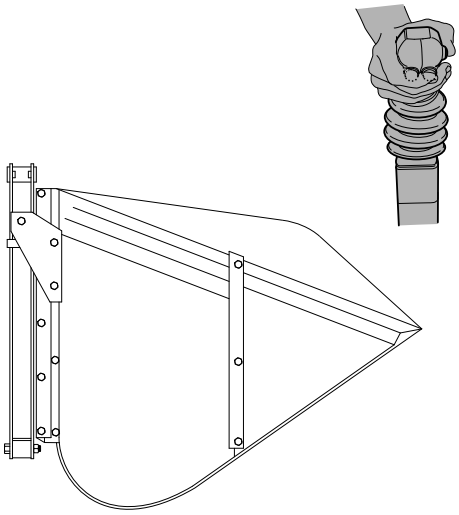


Note

In the event of a blockage it is sufficient to reverse the direction of rotation of the auger for a moment in order to start discharging again.

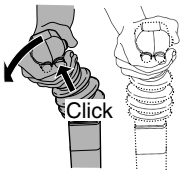
6.2.2 Closing the door:

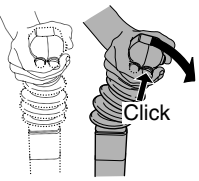


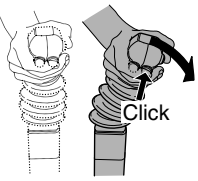


6.3 Using the twin auger

A timed opening / closing system for the doors ensures that one will be fully closed before the other starts opening.

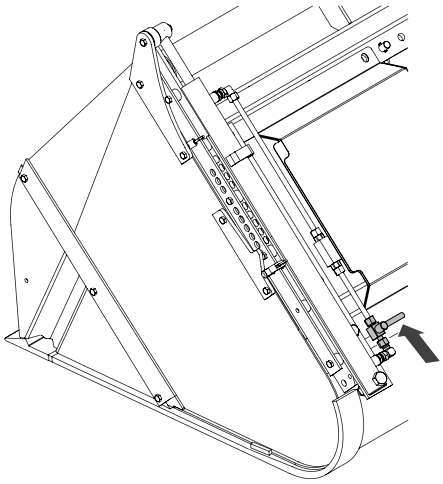






6.4 Using the twin door feeding bucket with a single door

Example: for single door operation on the right-hand side, shut off the left-hand door lock valve.



6.5 Fitting a root-cutter to the bucket (this option is only available on the single door feeding bucket)

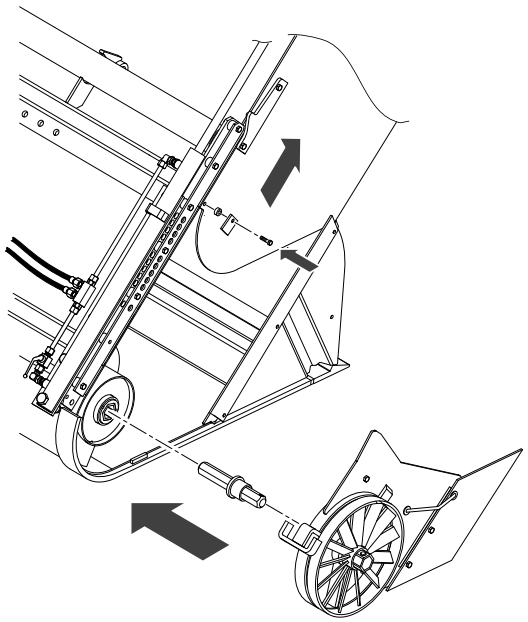
Caution

Any work on the feeding bucket must be carried out by the operator, who is to leave his seat *and lock out all controls while doing so.*

— Open the door to its fullest extent.

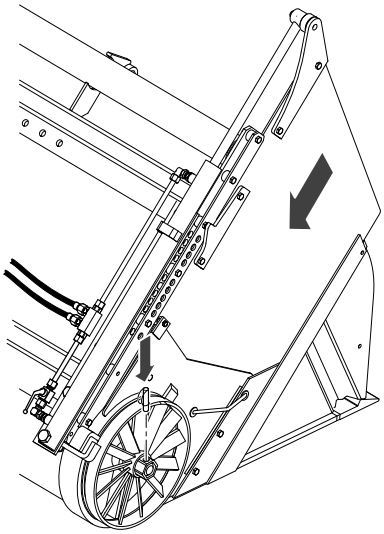
— Fit the locking plate.

— Fit the shaft to the auger then position the root-cutter.

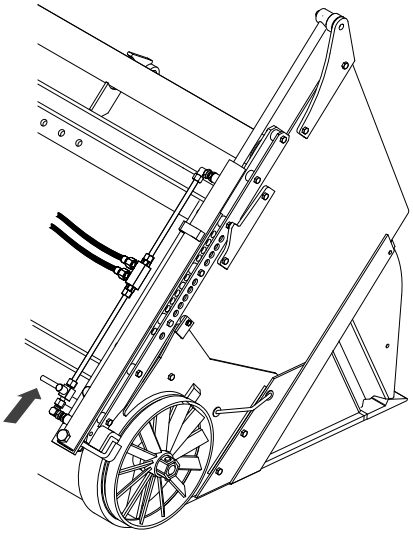


— Fit the clip to the root-cutter shaft.

— Lower the door until it stops against the counter-blade.



— Close the valve in order to isolate the door ram.



6.6 Usage

— Fill the bucket (beet, potatoes, etc.), be careful not to include any stones. Operate and hold the control lever.

— The auger rotates together with the root-cutter, feeding the material to be discharged.

7. FITTING TO REAR 3-POINT LINKAGE

7.1 Locating on the tractor

Caution – important!

Set the hitch so as to prevent any incident in the event of improper operation.
Check bucket crowding operation before starting work.

— Place the bucket on the ground, with the dumping ram fully retracted.

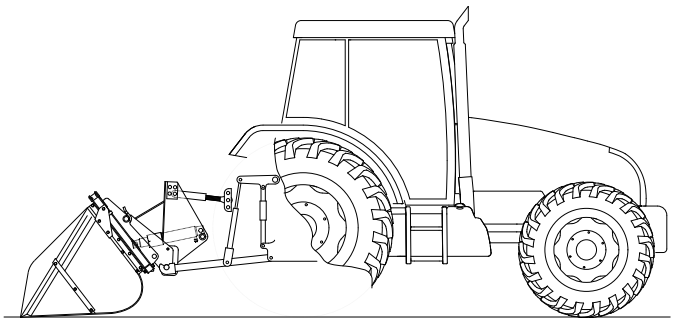
— Hitch the bucket to the tractor hitch links.

— Set the linkage position control lever such that the same hitch link height above the ground is maintained consistently with the feeding bucket.

— Place the tractor top link on the 3-point frame (set is such that the back is slightly raised relative to the bucket blade).

— Connect the bucket hoses after having fitted couplings to match those on the tractor.
1. Single acting = for tipping.
2. Double acting = to drive the auger.

— Check the hoses to ensure they are not trapped at the extremes of bucket travel.



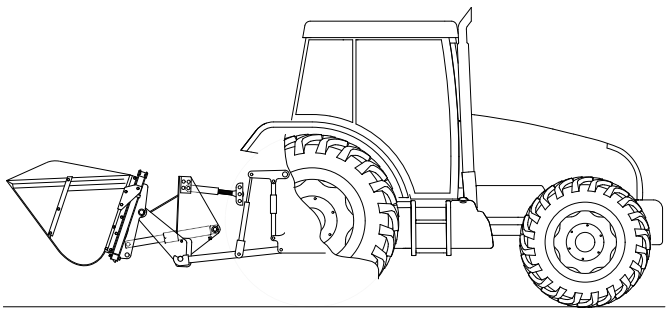
7.2 Usage

— Reverse towards the silo with the bucket dumped.

— Lower the linkage to drop the bucket to the ground.

— Crowd the bucket to fill it.

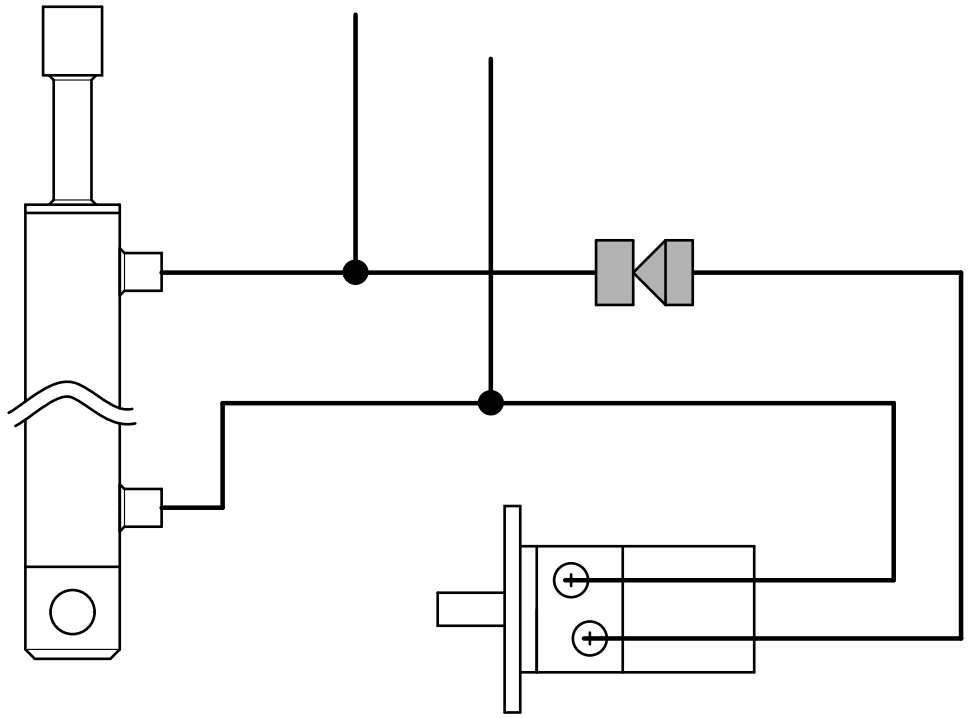
— Discharge while adjusting height as necessary by operating the tractor linkage.



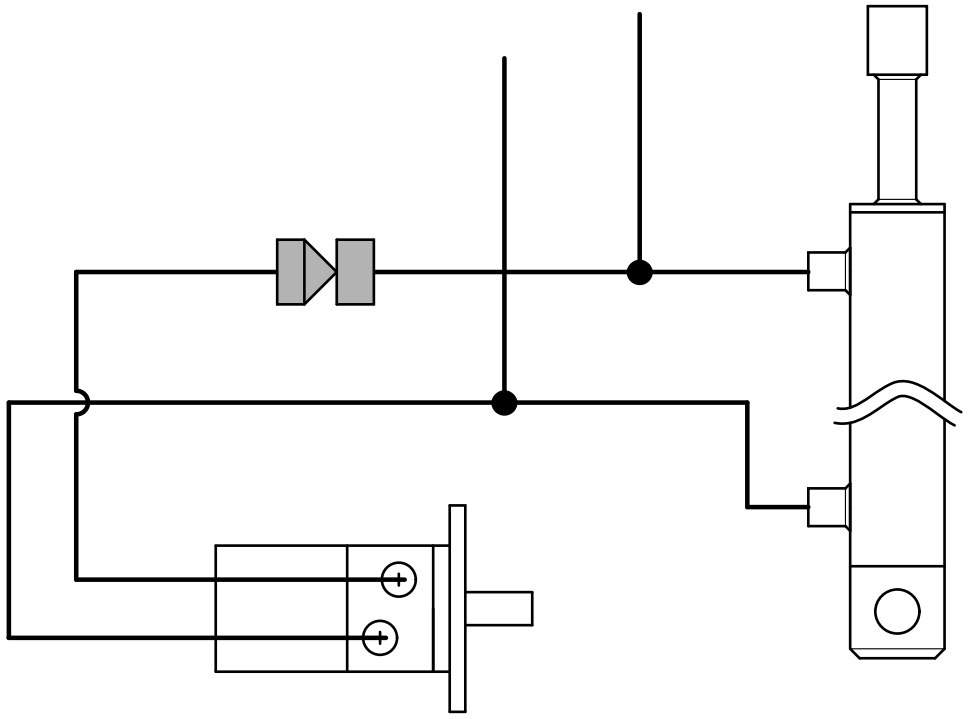
NOTE: the feeding bucket can also be fitted to the MX front linkage.

8. FITTING SPEED RESTRICTOR VALVE TO SINGLE DOOR FEEDING BUCKET

8.1 Front left-hand side discharge



8.2 Front right-hand side discharge



DECLARATION OF CONFORMITY CE

The manufacturer:

MX
19, Rue de Rennes
F - 35690 Acigné

Hereby declares that the following equipment:

BD 1202, BD 1402, BD 2002, BD 2402, BD 3102

Comply with EC directive 2006/42 of the Council of European Parliament and of the council of 17th of May 2009 relating to machines.

Acigné, the 15th of December 2009

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